



Department of Energy
Office of Civilian Radioactive Waste Management
Yucca Mountain Site Characterization Office
P.O. Box 98608
Las Vegas, NV 89193-8608

NOV 18 1994

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Technical Project Officer
for Yucca Mountain Site
Characterization Project
TRW Environmental Safety Systems, Inc.
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Las Vegas, NV 89109

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION REQUEST (CAR) YM-94-058 RESULTING FROM U.S. DEPARTMENT OF ENERGY/HEADQUARTERS QUALITY ASSURANCE DIVISION'S (HQAD) AUDIT HQ-94-02 OF THE CIVILIAN RADIOACTIVE WASTE MANAGEMENT SYSTEM MANAGEMENT AND OPERATING CONTRACTOR (SCPB: N/A)

The Yucca Mountain Quality Assurance Division staff has verified the corrective action to CAR YM-94-058 and determined the results to be satisfactory. As a result, the CAR is considered closed.

If you have any questions, please contact either Robert B. Constable at 794-7945 or Neil D. Cox at 794-7236.

Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:RBC-887

Enclosure:
CAR YM-94-058

cc w/encl:

T. A. Wood, HQ (RW-14) FORS
~~J. G. Spraul~~, NRC, Washington, DC
S. W. Zimmerman, NWPO, Carson City, NV
R. L. Robertson, M&O/TRW, Vienna, VA
Richard Jiu, M&O/Duke, Las Vegas, NV
R. P. Ruth, M&O/TRW, Las Vegas, NV

cc w/o encl:

W. L. Belke, NRC, Las Vegas, NV
D. G. Sult, YMQAD/QATSS, Las Vegas, NV

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PDR WASTE
WM-11 PDR

YMP-5

DH03/11
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WM-11

**OFFICE OF CIVILIAN
RADIOACTIVE WASTE MANAGEMENT
U.S. DEPARTMENT OF ENERGY
WASHINGTON, D.C.**

⁸ CAR NO. YM-94-058
PAGE: 1 OF 1
QA

CORRECTIVE ACTION REQUEST

¹ Controlling Document
M&O NLP-3-20, R0, Development of Basis for Design Documents

² Related Report No.
HQ-94-02

³ Responsible Organization
CRWMS M&O

⁴ Discussed With
G. Heaney/L. Morrison

⁵ Requirement:

- Para. 5.2.5 requires the department manager to submit the requirements list to the requirements manager by IOC for acceptance.
- Para. 5.3.2 requires the checker to review the discipline inputs for each CI in accordance with Attachment IV
- Para. 5.4.5 requires the reviewer to perform an inter-discipline review in accordance with the checklist in Attachment V

⁶ Adverse Condition:

For the ESF Basis for Design Document Rev 2:

- There is no objective evidence that the requirements manager reviewed and accepted the requirements list per the procedure.
- There is no objective evidence that discipline inputs for each CI were reviewed in accordance with Attachment IV
- There is no objective evidence that inter-discipline reviews were performed in accordance with Attachment V

⁹ Does a significant condition adverse to quality exist? Yes No x
If Yes, Circle One: A B C D E

¹⁰ Does a stop work condition exist? Yes No X; If Yes - Attach copy of SWO
If Yes, Circle One: A B C

¹³ Response Due Date:
20 working days from issuance

⁷ Required Actions: Remedial Extent of Deficiency Preclude Recurrence Root Cause Determination

¹² Recommended Actions:

- Ensure ESF BFD was adequately prepared.
- Ensure ESF Rev 2 Records Package is complete and submitted to LRC.

⁷ Initiator Rob Howard Date 6/30/94	¹⁴ Issuance Approved by: QADD [Signature] for Date 7-12-94
¹⁵ Response Accepted QAR [Signature] Date 9/6/94	¹⁶ Response Accepted QADD [Signature] for Date 9-8-94
¹⁷ Amended Response Accepted QAR Date	¹⁸ Amended Response Accepted QADD Date
¹⁹ Corrective Actions Verified QAR Neil D. Cox Date 11/8/94	²⁰ Closure Approved by: QADD [Signature] for Date 11-17-94

RESPONSE TO CAR #YM-94-058

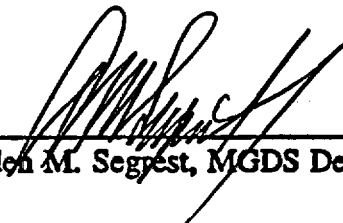
A. Remedial Action

An impact review will be completed to confirm equivalency of discipline and interdiscipline reviews and review and approval of selected requirements by the Requirements Manager. The impact review will either 1) confirm that initial reviews and approvals were equivalent to NLP-3-20 criteria, or 2) confirm that criteria, if any, which were not addressed during initial reviews are addressed in an equivalent re-review to confirm adequacy of the BFD. When the impact review is completed, it will be documented and, together with objective evidence to support the review, will be submitted to the Local Records Center as a Nonpermanent QA record, in accordance with QAP-17-1.

Responsible Individual: Robert Saunders
Anticipated Date of Completion: 10/30/94

B. Extent of Deficiency

The deficiency was identified for the design package 2B BFD revision. A review of subsequent BFD revision processing has been made and it has been concluded that this is a one-time-only deficiency. Design Package 2C is not affected. The problem resulted because BFD Revision 2 production began under one set of procedural requirements, but was completed after the revised requirements of NLP-3-20 became effective.



Alden M. Segrest, MGDS Development Manager

9/1/94

Date

9/1/94 L.V. ESSB. GH. 8/94-755

VERIFICATION OF OBJECTIVE EVIDENCE FOR CORRECTIVE ACTION REQUEST
(CAR) YM-94-058

1. According to a letter by L. R. Morrison, LV.ESSB.LRM.10/94-819, dated October 21, 1994, Mr. K. J. Ashlock was delegated the review responsibility for Design Package 2B External Review by the Requirements Manager. Attachment I to this letter contains 38 pages of the document review performed and signed by Mr. Ashlock. These pages are a satisfactory response to Adverse Condition 1.
2. Attachment 2 to the letter contains 17 pages that provide objective evidence of technical reviews as required by Para. 5.3.2 of M&O NLP-3-20, R0. These pages are a satisfactory response to Adverse Condition 2.
3. Attachment 3 to the letter contains 10 pages of a form for the sign-off and approval of Inter-Discipline Reviews of the ESF Basis for Design, Rev. 2. These pages are satisfactory objective evidence of inter-discipline reviews performed in accordance with Para. 5.4.5 of M&O NLP-3-20, R0.

It is concluded that corrective actions called for by CAR YM-94-058 have been completed and that this CAR may be closed.

Neil D. Cox
Neil D. Cox, QAR

11-8-94
Date